

Potentiometer test

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PotTest.bas

```
' Potentiometer test
' -----
' Author: Graeme Anderson
' Date:   Oct-2012
' -----

' GND and pin 10 are the 10k resistance  ---/\ /\ /\ /\ /\---
' pin 8 is the wiper                    ----^

SetPin 8,1 ' analog input
SetPin 10,8 ' digital output (used as v+)
' I use pin 10 as v+ as the wiring of my project is neater
' and I can deactivate the pot by settiing pin 10 low.

' Read value from pin 8 to check for any change as pin 10 is set from low
to
' high. If a change is detected the the potentiometer is connected.
' Set the wiper to about midway to ensure that the program detects the pot
Pin(10)=0 ' initial low
For i = 1 To 10
    vValue = Pin(8) ' initial voltage value
Next
Pin(10)=1 ' set high (3.3v)

If Abs(Pin(8) - vValue)>1 Then ' pot is connected (this is not foolproof!)
    ' calbration
    ' the value read can represent anything; my project treats it as
milliseconds
    Print "Rotate the potentiometer to one extreme and ";
    Input "enter the minimum delay (ms)";dMin
    vMin =Pin(8)
    Print "Rotate the potentiometer to the other extreme and ";
    Input "enter the maximum delay (ms)";dMax
    vMax=Pin(8)

    Cls
    Print @(50, 80) "Delay = ";

    Do
        vValue =Pin(8)
        dValue=Cint(dMin+Abs((dmax-dmin)/(vmax-vmin))*vValue)
```

```
If dvalue <> dPrev Then
    Print @(90, 80) dvalue;" ms  "
    Print String$(Cint(dValue*70/dMax), "#");Space$(70)
EndIf
dPrev = dValue
Loop
Else
    Print "Potentiometer was not detected"
EndIf
```

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